

# ONLINE UPS

RELIABLE POWER BACKUP  
FOR SMART INFRASTRUCTURE



## EPU 100 K/KL Series 1-3 kVA UPS



Pure Sine  
Wave Output



Intelligent  
Microexperience  
Control



Fast Charging  
System



Overload & Short  
Circuit Protection



Smart LCD  
Display

## ONLINE UPS

ESIS EPU 100K Series, produced with PWM and IGBT technology provide sinusoidal waveform output and contains advanced communication options. Series are 1 phase input, 1 phase output online UPS. ESIS EPU Series manufactured in different power ranges, are used to supply vital important equipment such as medical analysis equipment's, operating rooms in hospitals, ultrasound equipment's, security systems, all kinds of automation systems, computer networks and communication systems. Thanks to higher protection providing technology. EPU series protect them from problems of utility failures and voltage

### EPU 100K Series Technical Specifications 1-3 kVA 1 Phase Input - 1 Phase Output (HF) Online UPS

MODEL	EPU 101K	EPU 101KL	EPU 102K	EPU 102KL	EPU 103K	EPU 103KL
Rated Power (kVA)	1 KVA		2 KVA		3 KVA	
Active Power (kW)	0,9 kW		1,8 kW		2,7 kW	
<b>INPUT</b>						
Rated Voltage	200/208/220/230/240 Vac (1P+N+PE)					
Voltage Range	125~290±%5@0-60% Rated Load 155~290±%5@70-80% Rated Load		135~290±%5@60-70% Rated Load 175~290±%5@80-100% Rated Load			
Operating Frequency Range	40/70 Hz					
Power Factor	0,99					
<b>OUTPUT</b>						
Rated Voltage	220/230/240 Vac (1P+N+PE)					
Voltage Regulation	±1%					
Frequency	±1% / ±2%/ 4%/ ±5%/ ±10% of the Rated Frequency (Optional)					
Line						
Battery	50/60 ± 0,1 Hz					
Waveform	Pure Sine Wave					
Voltage Distortion (THDv)	≤ 2% (Linear Load); ≤ 5% (Non-Linear Load)					
Output Power Factor	0,9					
Crest Factor	3:1					
Voltage Regulation	±1%					
Efficiency	Line Mode 88%		92%			
Battery Mode	85%	86%	87%	88%	89%	90%
<b>SYSTEM FEATURES</b>						
UPS Type / Technology	Standalone Tower Type / True Online Double Conversion					
Transfer Time	(AC - Battery) Zero		(INV - Bypass) 4 ms (Typical)			
Overload Capability	105%-110%: UPS shuts down after 10 minutes at battery mode or transfer to bypass when the utility is normal					
	Ambient Time <35 °C: 110%-130%: UPS shuts down after 1 minutes at battery mode or transfer to bypass when the utility is normal					
	>130%: UPS shuts down after 3 seconds at battery mode or transfer to bypass when the utility is normal					
	40°C < Ambient Temp <35°C: 105%-110%: UPS shuts down after 1 minutes at battery mode or transfer to bypass when the utility is normal					
>110%: UPS shuts down after 3 seconds at battery mode or transfer to bypass when the utility is normal						
Short Circuit	Hold Whole System					
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately					
Low Battery Voltage	Alarm and Switch Off					
EPO (optional)	Shut down UPS Immediately					
Communication Interface	USB (or Rs232), SNMPcard (optional) Relay card (optional)					
Audible & Visual Alarms	Line Failure, Battery Low Overload, System Fault					
<b>BATTERY</b>						
Rated Voltage / Capacity	2x12V/9 Ah		4x12V/9 Ah		6x12V/9 Ah	
Typical Charge Time	4 Hours to %90 Capacity					
<b>ENVIRONMENT</b>						
Operating Temperature	0°C ~ 40°C					
Storage Temperature	-25°C ~ 55°C					
Relative Humidity	< 20-95% @ 0°- 40 °C (non-condensing)					
Altitude	<1500m					
Audible Noise	<55 dBA					
<b>STANDARDS</b>						
LVD (Safety)	IEC/EN 62040-1/IEC/EN 60950-1					
EMC	IEC/EN 62040-2/IEC61000-4-2/IEC61000-4-3/IEC61000-4-4/IEC61000-4-5/IEC61000-4-6/IEC61000-4-8					
<b>PHYSICAL</b>						
Dimensions (WxDxH) (mm)	144x293x209		144x399x209		191x460x337	144x399x209
Weight (kg)	9,8	4,1	17	6,8	27,6	7,4

## FEATURES

- True double-conversion
- Wide input voltage range (110-300 Vac)
- Input power factor correction 0.99
- Output Power Factor 0.9
- Maximum 12A charger for long-run models
- Charger current can be setting by LCD
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Eco mode operation for energy saving (ECO)
- Generator compatible
- SNMP/USB / RS232 multiple communications
- Smart battery charger design for optimized battery performance
- Selectable output voltage: 200, 208, 220, 230, 240Vac

ESIS Power Energy reserves the right to modify these details at any time without prior notification.